

Space News

ROUNDDUP!

VOL. 1, NO. 18

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

JUNE 27, 1962

Houston To Welcome Astronauts In July 4 Parade

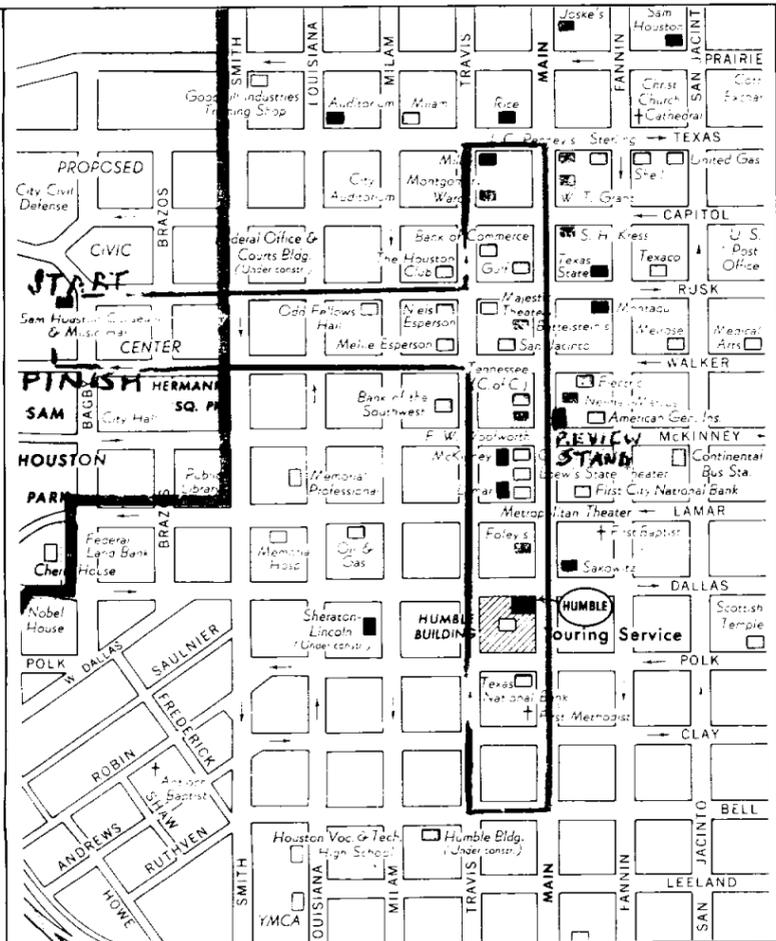
Williams, Strass Attend AGARD Meet In Paris

MSC Associate Director Walter C. Williams and H. Kurt Strass, head of the Test Facilities Branch, Systems Evaluation and Development Division, will attend several meetings of the Advisory Group for Aeronautical Research and Development, NATO, to be held July 6, 9 and 10 in Paris, France, and the Twelfth General Assembly of AGARD July 11 and 12.

Strass will be present at the Flight Mechanics Panel meeting and will participate in the work sessions of the AGARD Inter-Panel Space Information Group which will discuss facilities for simulation of space environment.

He has also been invited to attend the Twelfth General Assembly of AGARD, to be held July 11 and 12 at NATO

(Continued on Page 4)



Barbecue For MSC Personnel Will Follow At Coliseum

The Manned Spacecraft Center will be officially welcomed to the Houston area next Wednesday when the Houston Chamber of Commerce sponsors a parade through downtown streets.

In cooperation with the City of Houston, Harris County and the Texas Department of Public Safety, the Chamber is presenting a July 4 parade featuring the seven Project Mercury astronauts, who will appear together for the first time in Houston, and top MSC officials.

It will be followed by a giant Texas-style barbecue in the Sam Houston Coliseum for all MSC employees, their immediate families and dignitaries present in the motorcade.

Among those invited to ride in the 60-car motorcade, besides the astronauts and their families, are Vice President Lyndon Johnson, Texas Governor Price Daniel, Senator Robert S. Kerr of Oklahoma, chairman of the Space Committee; and Senators Ralph Yarborough and John G. Tower of Texas.

Congressmen invited include Rep. George P. Miller of California, chairman of the House Science and Astronautics Committee; Rep. Bob Casey of Harris County, chairman of the House Appropriations Committee; and Rep. Bob Casey of Harris County, a member of the Science and Astronautics Committee; Rep. Olin Teague of College Station, also a member; and Rep. Clarke W. Thompson of Galveston.

NASA officials invited include Administrator James E. Webb and Dr. Brainard Holmes, director of the Office of Manned Space Flight. MSC officials in the motorcade will be Director Robert R. Gilruth, Associate Director Walter C. Williams and other MSC officials.

Signs on the cars in the motorcade will identify the occupants for holiday crowds of more than 500,000 that are expected to jam the route.

The motorcade will begin at the coliseum on the Capitol Avenue side and proceed to Rusk Avenue, then on Rusk to Travis Street, to Texas Avenue, Texas to Main Street, down Main to Bell Street and back to the coliseum by way of Walker Avenue.

The motorcade is expected management-employee relationships.

Hacker explained policy on various questions of general procedure in union-employee-management relationship, negotiation and drafting agreements, consultation, recruiting,

(Continued on Page 4)

to get underway at 10:00 and end about 11:30 back at the coliseum.

At its conclusion, MSC employees and their immediate families will gather in the coliseum for a Texas-style barbecue featuring barbecued beef, chicken and pork plus potato salad, beans and all the trimmings and soft drinks.

Special entertainment for the event will be provided, starting at 1 p.m.

The show should end about 2:30 p.m.

An admission card for each employee and each member of his family will be necessary for admittance to the barbecue. These tickets, which are free, will be sent around to each MSC Division in the next few days and the divisions will handle distribution from there. A memo is also being sent around to determine how many people will be on hand.

Single personnel may bring one guest; married personnel their wives or husbands and children.

Gilruth Gets Three Honorary Doctorates

MSC Director Robert R. Gilruth was presented with honorary doctorates from three different colleges and universities during the commencement season just past.

Gilruth spoke at the dedication of the new McMillen Library at Indiana Technical College, Fort Wayne, Ind. May 19, and was awarded a Doctor of Science degree in special ceremonies following the dedication.

On June 6, he received the same degree from George Washington University, Washington, D. C. at regular graduation exercises.

Three days later, Gilruth's alma mater, the University of Minnesota, awarded him an honorary doctorate of science during graduation exercises.

Headquarters Representative Explains Government Employee Organization Rights

A representative cross-section of MSC employees and management Friday heard Richard B. Hacker, Personnel Division, NASA Headquarters, Washington, reaffirm govern-

ment recognition of the right of government employees to join organized employee groups, including but not necessarily unions.

A total of 65 persons lis-

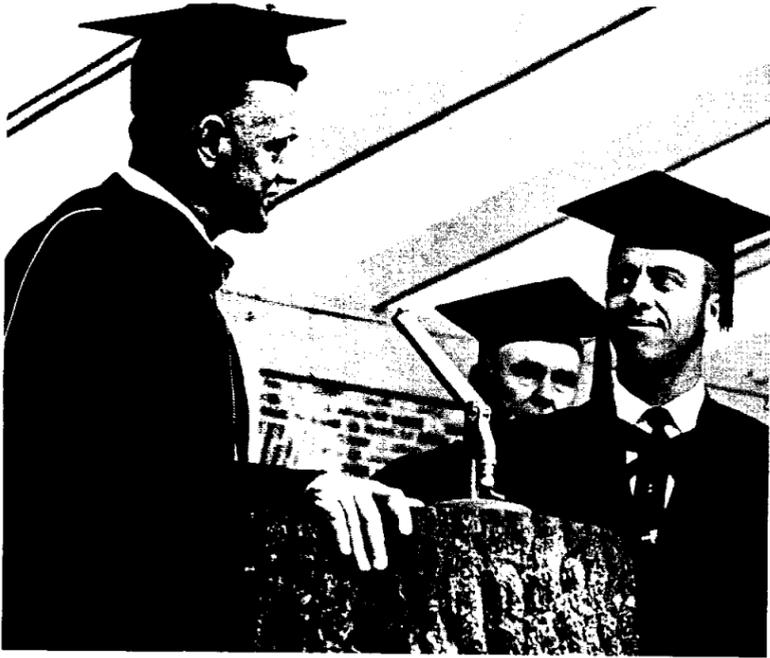
tened as Hacker explained President Kennedy's official stand on the subject, result of reports from a study made at the President's request. The basic policy, which has actually been in force for some time, is embodied in Executive Order 10988, which will go into effect July. A copy of the NASA policy on employee-management cooperation will be issued in the near future and posted on MSC bulletin boards.

It is government policy to recognize organized, unorganized and individual employee groups in providing orderly and constructive employee-management relations. Hacker explained the official interpretation of such terms as "employee organizations," which excludes veteran's, religious and social groups; "management official;" "appropriate unit;" etc. He discussed the neutral role of management in the employee's decision to enroll or not to enroll.

Government employees may not strike but they do have the right to choose union representation within the bounds laid down by the official policy and to present their views on



NASA PERSONNEL OFFICIAL Richard B. Hacker speaks to a group of MSC employees in the Farnsworth Chambers cafeteria. He used slides to illustrate his talk.



ASTRONAUT ALAN B. SHEPARD, JR., is shown listening to honorary degree citation in which President John Sloan Dickey of Dartmouth College (left) cited him as the "American Christopher Columbus of space exploration." (Photos courtesy of Dartmouth College)



YOUNGSTERS thronged Cmdr. Alan B. Shepard, Jr., to get an autograph during his appearance at Dartmouth College June 10, when he received the college's honorary Master of Arts degree.

New England Gets It's Chance After Thirteen Long Months

Having waited for the day for more than a year, Derry, New Hampshire finally got its chance June 9 to welcome home Astronaut Alan B. Shepard, Jr. for the first time since his sub-orbital flight May 5, 1961, as the first American in space.

Upwards of 50,000 admirers jammed the elm-lined Main Street and forgot their Yankee reserve as Shepard, his wife Louise, daughters Laurie, 14, and Julie, 10, his parents, in-laws, and a niece, rode by in

the homecoming parade.

The 20-car motorcade was greeted with enthusiasm all along the route from Derry to Manchester and Concord, 30 miles away.

At Grenier Field, Manchester, the astronaut lunched with Air Force officials and dedicated a new flagpole and flag at Ammon Terminal.

On the steps of City Hall in Manchester, Mayor John C. Mongan presented a silver tray to Shepard and Attorney J. Walter Wiggin, director of the Manchester Historical Society,

gave him a pair of Revolutionary War pistols owned by his great-great-great grandfather Gen. Joseph Cilley.

On the steps of the State House in Concord he was given a butternut wood bowl made by Concord craftsman Fred Brown.

The following day, Shepard went to Dartmouth College at Hanover, N. J. for 10 a.m. commencement exercises.

Described as the "American Christopher Columbus of space exploration," Shepard received the first master's de-

gree "honoris causa and summa cum laude" ever given by the college.

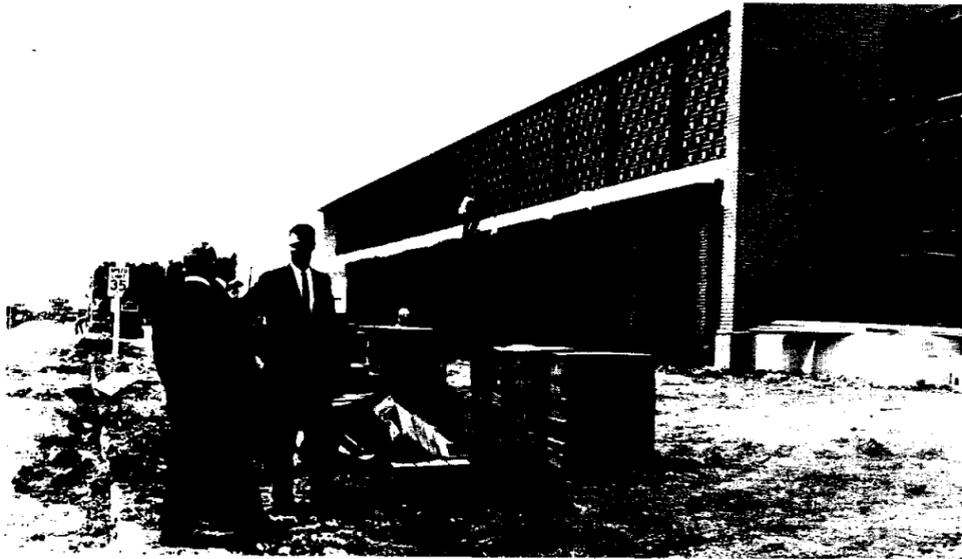
Two days of rest at the home of his parents, Mr. and Mrs. Alan B. Shepard, Sr. in Derry preceded his trip to Gloucester and Boston and another welcome.

Gloucester presented Shepard to an assembly of high school students for an address, followed by lunch and then a parade in his honor at which he was presented the Mariner's Medal from the city for "certain explorations."

Boston welcomed the astronaut the following day. He was presented the Aero Club's Godfrey L. Cabot Award for outstanding contributions to aviation.

June 15, the astronaut addressed the students from his alma mater Pinkerton Academy in Derry, at commencement. That morning he was present at the dedication of the new Alan Shepard Highway.

The crowded week ended June 17 when Shepard returned to his duties.



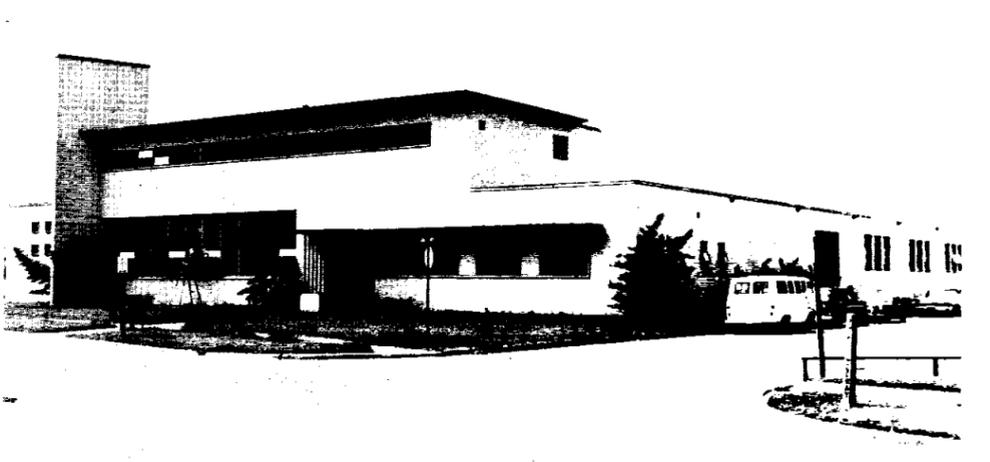
MANNED SPACECRAFT CENTER has acquired temporary office space in several additional buildings in the Southeastern area of Houston during the past several weeks. Above is the newest, at Office City near Gulfgate, now under construction. Inspecting the work are Julio Laguarda, manager of Office City, Martin Byrnes, MSC Center Operations chief, and Robert C. Brubaker of procurement. This will be site 7.



FACILITIES is now in the Peachy Building at 5511-5513 Griggs Rd., between Royal Palms and Sunrise St. This is Site 12. Scheduled for use in the near future is the former KHOU-TV studio at Site 11, off Cullen Blvd., where Data Computation will move.



THE MINNEAPOLIS HONEYWELL BUILDING, at the Telephone Road exit of Gulf Freeway, is the new temporary home of the Public Affairs Office, at Site 9.



TECHNICAL SERVICES has moved to the Canada Dry Building on Canada Dry Street off Gulf Freeway at exit 4 going toward downtown Houston, Site 10.

Credit Union Has \$14,000; More Deposits Encouraged

Would you like to be able to borrow money for a new automobile right at MSC's credit union?

Then deposit some money. Already making loans of from \$25 to \$750, the Credit Union needs to raise the current assets of \$14,300 to \$25,000 before it will be able to make auto loans.

"We can lend a maximum of 10 per cent of the current assets to any one person, and most auto loans would be at least \$2,500," Credit Union Manager and Assistant Treasurer Joseph P. Murray explained.

Murray was appointed manager of the union in mid-May, and comes to MSC with a long record of credit union experience. Between 1942 and 1957, he helped build the Shell Oil credit union assets from \$42,000 to some two and three-quarter million dollars.

"This is a good investment for depositors," Murray pointed out. "We are going to be able to pay a dividend this year."

Another serious need of the credit union at the moment is a volunteer from each of the MSC sites in Houston to collect deposits. Those interested

should contact Murray at the Credit Union office, Farnsworth Chambers Building, Room 268, or telephone MI 4-1771, ext. 5364, between the hours of 11 a.m. and 4:30 p.m. on any weekday.

Loans are now being made and deposits accepted at the same location, with service on loans running from 24 to 48 hours. Shares in the Credit Union are payable on demand.

Those wishing to join must purchase one share, \$5, and pay a 25-cent initiation fee.

Loans may be paid back at a minimum of \$5 per month, with the repayment period on larger loans not to exceed 30 months.

The Credit Union is operated by a seven-man board of directors of which Roy C. Aldridge is president, Dave Lang vice president, Robert H. Bailey treasurer, Norman Smith clerk, and G. F. MacDougall, William Kinkaide and Burney Goodwin, members.

At present, the credit committee includes Abner Askew, Margaret Nagle, and Nick Jevas. Holding down supervisory committee posts are Thomas J. Cassias, I. E. Campagna and Hazen Walker.

Garrett Airesearch To Develop Apollo's Environmental System

Garretts Airesearch Manufacturing Division in Los Angeles was awarded an approximately eight to ten million dollar contract by North American's Space and Information Systems Division to help in developing an Apollo spacecraft, under the Direction of NASA-MSD.

The contract calls for Garrett to design and develop the environmental control system which will be located in the Apollo command module.

The system provides the Apollo crew with an artificial environment in space where temperatures and pressure are so extreme man cannot travel without protection.

Paul C. Scofield, Air Research assistant chief engineer, was named program manager for development of the system.

At present, Scofield directs a team of 100 environmental specialists who are working full time on the project. In addition, Scofield, who has been associated with the development of environmental control systems for 15 years, draws on experienced specialized departments in Los Angeles

and Phoenix, Ariz. to aid the project.

Testing of the Apollo environmental control system will be conducted in a new modern laboratory now under construction in Torrance, Calif. This laboratory was built for

NASA, Canadians Launch First Two Black Brant III's

The National Aeronautics and Space Administration, in cooperation with the Canadian Government, launched the first two in a series of six Black Brant III sounding rockets at 4:14 p.m. and 7:01 p.m. EDT June 15 from its Wallops Station, Wallops Island, Virginia.

Purpose of these tests is to determine vehicle flight performance characteristics and to obtain engineering data on effectiveness of instrumentation. The 60-pound payload in these two experiments carried a cosmic ray sensor for measuring altitude, a roll rate magnetometer, and a new telemetry transmitter and related antennas.

other projects of Airesearch. The multimillion dollar facility will be capable of simulating a trip to the moon.

The new 87,000 square foot laboratory will include 17 space chambers, two vibration rooms, two hot and cold chambers, a humidity chamber, a fungus chamber and two clean rooms.

According to Scofield, a unique feature of the lab will be the data acquisition center, capable of conditioning and recording 1500 channels of information. The center prepares this information in analog or digital readouts compatible with electronic computers.

The program manager announced that Airesearch is now in the process of purchasing all test equipment for the project. "We have not reached the point," he said, "on decisions on which equipment will be subcontracted."

Several investigations to find optimum material for system components are now underway. These programs will be completed within 60 days, following which Airesearch will begin the subcontracting program.

Training Branch Orientation Program Proves Popular

With the steady influx of new employees at MSC, the training Branch has initiated three-hour orientation programs held once a month in order to familiarize new personnel with the organization and procedures of the Center.

The meeting includes an introduction by Personnel Director Stuart Clarke and a welcome address by Director Robert R. Gilruth.

A brief history of NASA and the Manned Spacecraft Center including the missions of each, is followed by a rundown on the organizational Chart and the functions of each division and the location of each of the MSC facilities.

Two 20-minute films, titled "Manned Spacecraft Center" and "Friendship 7," are interspersed with lectures on Project Mercury, Project Gemini and Project Apollo by either the project officers or their designees.

A lecture on security procedures is followed by some special subjects for consideration by new employees: personnel policies and procedures, NASA-Civil Service Employment, benefits, and insurance.

The closing lecture is on MSC training policies and procedures.

Held from 9 a.m. until noon in the training room, East End State Bank Building, the orientation programs are given in mid-month with the next one

scheduled July 19.

New personnel are usually sent a memo inviting their attendance, however, any new employees who do not receive one should contact the Training Office in East End State Bank Building, WA 8-2711, ext. 4207 for information and placement on the list.

"Because personnel records of new employees are frequently in use, we sometimes do not get a complete roster," explained Mervin Hughes of the Training Branch. "In addition to that, new employees called away by business trips or unable to attend a meeting for other reasons may be left off the next month's list. They should contact us, even if by then they are not-so-new employees, because the program is valuable no matter when they attend."

Kids In College?

The Training Branch requests that all MSC employees who have dependents either enrolled in or planning to enter Texas colleges or universities contact the Training Office, WA 8-2711, ext. 4207 as soon as possible.

The request is in connection with an effort to persuade the state's schools to waive out-of-state tuition rates for MSC dependents. At present a new resident of Texas must live here one year to be declared a resident for tuition purposes.

WELCOME ABOARD

Some 154 new employees joined Manned Spacecraft Center during the period May 27-June 16, all but 10 of them at Houston. Those listed for Preflight Operations and four others will be stationed at Cape Canaveral. Of the remainder, four came aboard at Langley prior to transferring to Houston.

Apollo Project Office: Harold A. Vanderwall, Raoul W. Lopez, William J. Rhine, Percy F. Hurt, Ronald J. Bartosh, and Helen B. Statz.

Program Analysis and Evaluation: Mary V. Spanel, and George V. Sowers.

Preflight Operations: James H. Lane, and Joseph E. Yeo.

Flight Operations: Larry J. Dungan, Bobby T. Spencer, Carolee Boykin, James M. Satterfield, Bobby T. Spencer, Gloria E. Cumberland, Larry V. Minter, James R. Bates, Nancy J. Harrington, William R. Chase, and Suellyn Johnson.

Flight Crew Operations: Carroll H. Woodling, William H. Dumay, Marvin E. Dement, Charles W. Dressens, Paul C. Kramer, and Timothy M. Brown, Jr.

Systems Evaluation & Development: Richard L. Sinderson, Jr., Carrington H. Stewart, James W. Akkerman, Wayne W. Potter, Eugene F. Zetka, Robert L. Reecer, Lloyd V. Kirkpatrick, Charles D. Haines, Leonard W. Shinn, Robert D. Feldman, Edward E. Williams, Sr., James W. Anderson, Woodie L. Thompson, and John W. Ogden.

Life Systems: Clifford D. Thompson, Melina S. Caruthers, Michael A. Ervin, Fred B. Himgurg, Judith A. Hamann, John D. Lem, Jr., Charles N. Crews, Jackie M. Middleton, Marcella L. Minter, Donald K. Smith, Robert F. Schwartz, and James T. Brown.

Spacecraft Research: Pat H. Thornton, Alexander L. Madyda, William C. Cummings, Glen C. Miller, J. T. Edge, Kenneth P. Horn, Clarke T. Hackler, Donald M. Donohoe, Kenneth B. Craib, Nita J. Carter, Valdeen R. Wardlow, Cynthia L. Rankin, Hubert J. Brasseaux, James J. Kotanchik, Betty A. Barnes, Robert E. Flaherty, Douglas A. Cope, Paul J. Stull, and Robert C. Clarke.

Data Computation and Reduction: Wallace F. Stewart, John R. Barlow, Ivan D. Browne, Sarah H. Galloway, Jerry B. Hattox, Walter B. Gillette, William R. Nelson, II, Anthony J. Coumelis, Martha C. Lewis, Charlatte A. Hailey, Ladgie C. Krchnak, Eric D. Bone, Charles L. McKinnon, and Robert T. Voigt.

Steno Services: Ruth S. Crow, Nan G. Dudley, Sharon J. Tipton, Ellen E. Waltman, Diana E. Lord, Julia G. Parrish, Mary E. Dominey, Linda S. Russell, Jeri B. Flanagan, and Martha A. Kokesh.

Procurement: Ruth R. Lizcano, Antoinette Roe, Robin R. Stuart and Deanna Alleman.

Financial Management: Florence E. Landry, Sharon J. Brenan, and Jeb J. Long.

Personnel: Joseph H. Galloway.

Public Affairs: Howard I. Gibbons, Roy H. Wallack, and Mary E. Purser.

Facilities: Terry C. delamoriniere, James E. Creel, John N. Ross, Clinton N. Waggoner, Helen M. Winkler, Donna B. Beeman, James E. Langford, Andrew G. Anderson, and Barbara A. Brock.

Administrative Services: Margaret A. Buford, Earl B. Patterson, Bethel A. Barcello, Faith L. Tiller, Juanita S. Brewton, Joyce M. Davis, Gwendolyn K. Morgan, David F. Wylie, Lula E. Kirkpatrick, Drue S. Stubbs, Audrey L. Swisher, and Jeanene Harville.

Logistics: Herman P. Fisher, John M. Richardson, James A. Pyeatt, Donald A. Norsworthy, Marl L. Cox, and Nancy E. Williford.

Reliability & Flight Safety: Mary C. Sylvia.

Mercury Project Office: Russell E. Clickner, Jr., and O. Constance Critzos.

Safety Office: Dinah E. Lunsford.

Technical Information: William D. Chandler, Elinor E. McCain, Joan C. Martin, Susan J. Wolfinger, and Sandra B. Coffman.

Space Physics: Richard M. Jacobs.

Security: Allen B. Daniels, Louis S. Charlton, and Judith P. Carey.

Management Analysis: Virginia W. Brock.

'Friendship 7' Travels

(Continued from Page 8)

were repeated in almost every city, Englishmen wanted to know why the capsule was black, what we learned from Glenn's flight, what problems Glenn had, and in addition asked detailed questions such as "What was the speed of the capsule when the drogue chute opened?"

Schoolboys, students, workmen in overalls with lunch boxes under their arms, businessmen carrying briefcases, youths in leather jackets and jeans, and elderly ladies with the morning's shopping in string bags thronged to the Science Museum for the display.

Snags of a strictly terrestrial nature sometimes upset the progress of the two-ton machine. Each of the capsule's orbits took about 68 minutes, but its progress from the RAF station at Bovington, Hertfordshire, where it was flown in by a U.S. Air Force Globemaster from the U.S., to the Science Museum in South Kensington where it was on display, took three hours. Part of the trouble was a loose wheel on the capsule trailer.

At the Palais De La Decouverte in Paris, the spacecraft had to be lifted through a window on the second floor of the building, but the operation was accomplished with no difficulty. About 30,000 visitors saw the display, and interest was again strong.

Said Johnston, "General reaction was excellent. The display is impressing a lot of people—doing us a lot of good." In France the language barrier furnished some difficulty not encountered in London, but writeups in the French press indicated satisfaction.

In Madrid, Spain, 40,000 Spanish citizens viewed the display, forming a line nearly a mile long May 27. The crowds were so heavy that the authorities had to call out mounted police to handle them, although there were no incidents.

Leaving Spain, the display toured through Accra, British W. Africa; Lagos and Kano, Nigeria; Cairo, Egypt, Istanbul, Turkey; and Karachi, Pakistan, before reaching Bombay last weekend. As you read this, it is probably in route to Colombo, Ceylon and the final month of overseas appearances.

The tour closes Aug. 2 in Seoul, Korea, the final overseas appearance before transportation back to the U. S. and Seattle.

UNC Sociologist

(Continued from Page 8)

of Appalachian Governors, as well as a member of the National Public Advisory Committee on Area Redevelopment. U. S. Department of Commerce.

Dr. Simpson won three campaign stars for three years duty aboard a destroyer during World War II was discharged from the U. S. Navy bearing the rank of Lieutenant.

He is the author of several articles and a monograph, as well as a book, "The Cokers of North Carolina," a social biography of a family published by the University of North Carolina Press in 1955.

Dr. Simpson, on leave from the University of North Carolina, is married to the former Louise Hartsell of Concord, North Carolina, and is the father of two sons, George L., III, 17 and Joe, 11.

Northrop Readies For Development Of Landing System

Northrop Corporation's Ventura Division is mobilizing forces for work on the development and production of the Apollo spacecraft's parachute landing system, according to a release last week.

Northrop was among four companies named late in December by North American Aviation's Space and Information Systems Division as subcontractor's for the Apollo craft. Approximate value of the finalized, delivered system is expected to be more than \$5 million.

Total number of manufacturing and engineering personnel involved will be 127 engineers, technicians, experimental parachute technicians, parachute and general production workers, planners, tool makers and quality control experts.

Facilities to be utilized will include the project engineering and production facility of the Ventura Division, the El Paso facility for fabricating the main parachutes and all soft goods, the Norair Hawthorne and Nortronics Anaheim Division facilities in data processing equipment, if required, in-flight test facilities at the El Centro, Calif., test range, and textile labs.

Organization Rights

(Continued from Page 1)

dissemination of union communiques, the use of duty time in union activities, and other general provisions. He also pointed out the availability of the NASA grievance procedure to all employees whether members of organized groups or not.

Six Management Interns Due To Start Training July 2

Six more persons will enter the management internship program at MSC by July 2, bringing the total of management intern trainees to seven.

One, Kenneth I. Jeffries, is presently working in the Program Analysis and Evaluation Office, nearing the end of his six-months of rotational training.

Management interns spend six months rotating to various offices and divisions of the Center, spending a month in the larger ones such as Financial Management and Personnel, and from a few days to a week or two in others.

At the end of the six months they are assigned to a particular office for another half-year of specialized training.

They are picked from among graduates in public or business administration or in political science, most of whom have graduate degrees.

Included in the group coming in in July are Miss Jerry Ann Penno, a public administration graduate of Syracuse University; Mark A. Johnson, who majored in political science at the University of Minnesota; James Richards, public administration major from the University of Texas; Earl S. Young, social science

major at George Washington University; Raymond E. Hassett, University of Maryland; and Paul Liebhardt, Syracuse University.

Commented Jack Lister of the Training Branch: "Rotating them from office to office gives them a chance to find out what they want to specialize in, and acquaints them with all facets of the Center's operations."

Science Fair Will Exhibit NASA Displays

The National Aeronautics and Space Administration has announced that a "Space Science Fair" for students and adults would be held in Cleveland, Ohio next fall.

The Space Science Fair will open in the Public Auditorium Friday, Nov. 23 and conclude on Sunday, Dec. 2. The Cleveland Plain Dealer is co-sponsoring the Space Science Fair as a public service for the community. The ten day fair is designed to bring to the mid-west exhibits representing space technology programs at NASA's 10 centers throughout the nation. It will be open to the public on a free admission basis.

Dr. Abe Silverstein, Director of the Lewis Research Center and Chairman of the Space Science Fair said, "NASA is bringing to Cleveland numerous full-scale exhibits of its scientific programs to acquaint the youth of the mid-west with the nature and scope of our responsibilities. Also, the various educational programs for the fair are designed to explain the exciting career challenges which exist in NASA."

AGARD Meeting

(Continued from Page 1)

Headquarters in Paris. The technical theme of this meeting will be *Manned Flight Systems—Past, Present, and Future*. Associate MSC Director Walter C. Williams will deliver a paper at this meeting.

Strass will leave Houston about July 5 by the U.S. Air Force's Military Air Transport Service, and will return about July 16.



QUIGG NEWTON, president of the University of Colorado, congratulates Carpenter upon his receipt of the Norlin Award, given to alumni who have distinguished themselves in their fields, during graduation ceremonies in the University of Colorado's Folsom Stadium. Carpenter wears the traditional cap and gown marked with the orange hood of the engineering school. He was actually awarded his long-delayed degree during his first trip to Boulder, immediately after return from Grand Turk Island and the MA-7 debriefing. However, it was officially conferred during 1962 commencement activities.



PROF. BENJAMIN SPURLOCK, right, marshal of the commencement exercises is also the professor who flunked Carpenter in a heat transfer course in 1949, preventing him from getting a degree in aeronautical engineering at that time. At left is Mrs. Kathryn Hughes of Denver, vice president of the Associated Alumni of the University of Colorado, who presented the Norlin Award.



ADDRESSING BOULDER HIGH SCHOOL'S graduating seniors the night of June 7, Carpenter told the students, "You really don't know the riches that await you . . . but they're not going to drop into your lap. You must go get them."



A CROWD OF SOME 2,500 packed into Macky Auditorium to hear Carpenter give the class of '62 from his Alma Mater a recipe for life. "It is your own responsibility to see that our way of life continues," he said, "and that freedom survives. This is perhaps your greatest responsibility."

Carpenter Returns To Boulder For Commencement

Astronaut M. Scott Carpenter spent two more hectic days in Colorado June 7 and 8, participating in two commencement exercises, presenting an award at the Martin Company, makers of the Titan missile, and opening a baseball game at Scott Carpenter Park in Boulder.

This second round of festivities followed by only nine days his initial trip to the Boulder-Denver area June 28-30, during which the state celebrated Scott Carpenter Day and the University of Colorado presented the astronaut with a degree in aeronautical engineering.

June 8 Scott Carpenter, in cap and gown, graduated with the class of 1962, 14 years after failure to finish a course in heat transfer prevented his receiving a degree.

The two-day schedule began June 7 when Carpenter addressed 316 graduates and better than 2,000 of their friends and relatives at commencement exercises for Boulder High School, from which he graduated 19 years ago.

Bad weather failed to dampen the occasion and many of the visitors were on hand two hours ahead of the ceremony.

Among the graduates who walked across the stage on which Carpenter sat was Vicki Noxon, his cousin.

In an address which lasted only 19 minutes, Carpenter told the graduates that one of their group could likely land on Mars, and later pointed out ground rules to help them succeed. He preceeded his message with a description of details of his three-hour orbital flight in space May 24 then gave his advice to future spacemen and citizens. He encouraged the class not to be impatient, to be self-reliant, to be true to themselves and above all costs to continue and broaden their education.

"We are engaged now in a battle with another ideology for the minds of men, the effects of which may be felt for another 1,000 years. It is your responsibility, whether you like it or not, to see that our God-fearing way of life continues . . . Accept it with determination, courage and resolve, and don't be afraid to risk your own security in order to gain security for your children and your children's children.

"Standing before you is the most fortunate man I have ever known, and yet he stands in awe of the great good fortune

that awaits each and every one of you. I wish you all a full measure of that good fortune."

The following day, Carpenter visited the Martin Company plant near Littleton, makers of the Titan I and Titan II missiles. In a ceremony beneath dark, dripping skies he presented a four-star U.S. Treasury flat to the 8,000 employees, who during the past fiscal year purchased a total of \$4.5 in savings bonds with 94 per cent participation.

He thanked them "for making possible the work we are doing in Project Mercury," referring both to the work done at the plant and the savings bond program. The Titan II missile will be the booster for the two-man Gemini spacecraft to be launched following completion of the current Mercury program.

Returning to Boulder, Carpenter was honored at the Alumni Luncheon at the University of Colorado and then appeared in 4 p.m. commencement ceremonies.

The Boulder-born astronaut appeared in cap and gown before his fellow graduates, 1,821 of them, and an estimated crowd of 10,000 in Folsom Stadium to speak brief words of humility and humor.

He extended his heart-felt

thanks to the University for granting him the degree in aeronautical engineering, the same degree he failed to earn by not taking a final examination in a course on heat transfer in 1943.

At the 4 p.m. exercises he told the class that he had been working on the degree for 20 years, and, because of the difference in age between himself and the seniors, they would have to hurry to get acquainted.

The University gave him the degree before his home-town audience in the same location May 29 during Scott Carpenter Day festivities.

He was attired in the usual black gown and mortar board, with orange tassel and gown trim—the same color orange that trimmed his space suit for his flight May 24.

Clearing skies, following nearly two days of rain, made the exercises perfect for Carpenter, who sat on the platform facing his beloved Boulder mountains.

Earlier in the day he was introduced at the Alumni Luncheon as a recipient of the Norlin Award.

He told them that he felt the award was the greatest thing that had happened to him, and that it was good to be able to

bask in the good graces of the university once more.

Following commencement the Navy lieutenant commander visited with his father and mother, took his mother, Mrs. Florence Carpenter, to her 1922 class reunion at the Boulder Country Club, and later took her to dinner.

His father, Marion S. Carpenter, of Palmer Lake, also attended the reunion as a member of the class.

Following the afternoon ceremonies, Carpenter visited Scott Carpenter Park to throw out the first baseball in opening night ceremonies for Boulder's Kid Leagues.

Making a few remarks to the assembled youngsters, who came from every organized team in Boulder and numbered about 1,000, Carpenter told them "to play according to the rules and to play against your opponent as you want them to play against you."

The elder Carpenter drove his son to the Denver airport to meet the 1 a.m. plane that would take the astronaut to Houston.

Carpenter met with most of his close Boulder buddies Thursday night, following his commencement address before the Boulder High School seniors.

The **SPACE NEWS ROUNDUP**, an official publication of the Manned Spacecraft Center, National Aeronautics and Space Administration, Houston, Texas, is published for MSC personnel by the Public Affairs Office.

Director Robert R. Gilruth
Public Affairs Officer . . John A. Powers
Editor Ivan D. Ertel
Staff Writer Anne T. Corey
Staff Photographer Bill Taub

Editorial

(reprinted from the Boulder, Col. Camera)

Astronaut Scott Carpenter spoke for a few minutes at Boulder High School graduation Thursday night. His words were simple, direct and brief, the kind of language that goes from the heart of the speaker, goes to the heart of his subject and remains in the hearts of the hearers.

Lt. Cmdr. Carpenter, distinguished space pioneer, one of a handful of men in his field whose names are known around the world, spoke humbly and sincerely—not as a hero but as a grownup high school youth, only a little older than the boys and girls he talked to.

The simplicity of his speech was perhaps misleading, for it was full of quotable truth about life and the things high school graduates can expect to find in life. His remarks had the ring of deep reflection and the authority of experience.

“ . . . your horizons are limited only by your own vision, your contribution to a better world is limited only by your own individual effort, and where you go from here and what you do with your own lives is purely a function of your own determination.”

Scott Carpenter could say that and make it ring true because he had proved it in his own life.

He viewed the world “rich with promise,” but he warned that the riches are “not going to drop into your lap. You have to go get them.”

And then he outlined four ground rules, which are worth repeating and thinking about. Rules that will be of infinite use to young people to the extent that they think about them and adopt them as daily habit. Rules that could serve any person at any age this side of senility.

1. Don't be impatient—all good things take time.
2. Be self-reliant—you are entering a phase in your lives when your parents and your teachers are no longer going to do for you, and if you don't look out for yourselves, nobody else will.
3. Be true to yourselves. When you have decided what is right, then stick to it. When you are asked, “What do you think?” don't parrot the popular answer. Tell them what you think!

4. Continue and broaden your education at all costs, and above all—work at it. It should be the hardest work you will ever do, but if it is, it will be the most rewarding. . .

Rules of personal responsibility. And in this age of conformity and creeping collectivism, the reaffirmation of the dynamics of personal responsibility are more than ever vital.

Some observers complain that the present emphasis on exploring outer space tends to blind our scientific leaders to the need to make our space on earth more habitable through the promotion of human values. Scott Carpenter, for one, gives the lie to that assumption.

He has not lost the human touch, but rather has gained a deep understanding of human values and how they apply in respect to individual responsibility.

Boulder High School graduates—and indeed the whole community—have been made better because of his message as the world of science has gained from his pioneering in space.

—James D. Corriell

EDITORIAL EXCERPTS

Los Angeles Times
 Saturday, June 9

ASTRONAUTS ON TETHER SEEN IN SPACE FLIGHTS

by Marvin Miles
 Space-Aviation Editor

Within perhaps three years an astronaut may step out of his orbiting spacecraft as it circles the earth at 17,500 m.p.h.

Weightless, he'll have no feeling of speed in the dark, silent void as the globe rolls slowly beneath him — even though he's traveling at almost five miles a second.

But he'll have to be tethered to his capsule lest he float off into space and be lost on his own individual orbit to die of suffocation.

D. Brainerd Holmes, chief of the U.S. manned space flight program, expects the first such experiment will be conducted from the three-man Apollo capsule now in development at North American Aviation's Space and Information Systems Division, Downey, Calif.

Indoctrination First

Apollo is being designed to land man on the moon, but astronauts will first be trained on earth orbit missions starting in 1965—flights that will be extended to 14 days to acquaint the men with capsule operations before they crawl out on their own.

There have been reports that astronaut operations outside the spacecraft are being considered for the two-man Gemini capsule scheduled for late next year, but Holmes says such operations will have to await the more sophisticated capsules of the Apollo project.

Apollo will have an airlock chamber in its conical section through which a man can crawl out of the spacecraft. It will be designed so he can enter the tube in his spacesuit, depressurize its interior and then extend it outside the capsule for space exit.

Repairs in Space

It is expected these experiments now under study by the National Aeronautics and Space Administration, will lead eventually to an astronaut's capability to make repairs in space, direct orbital docking operations and assemble space observatories.

It also will give the space pilots training toward operations on the airless lunar surface.

Development of a spacesuit for such operations is one of the biggest problems facing NASA, for it not only must give an astronaut his own earth-like environment (pressure, oxygen, heat), but it must also be equipped with some sort of a back-pack container that can eject small thrusts of gas to give him movement within the limits of his tether line.

MSC PERSONALITY

Thomas W. Briggs Heads Program Evaluation Office

The 48-year-old chief of MSC's Program Analysis and Evaluation Office is head of a relatively new office with a new job—in fact, he says, “this whole subject is new.”

He is Thomas W. Briggs, a native of Sunderland, Mass. who grew up on Long Island and came to NASA after nearly a quarter century with Douglas Aircraft Corporation in California.

Program Analysis and Evaluation is the office responsible for planning, analysis, scheduling and review of manned space flight programs with an eye on both the clock and the budget. Also involved are integration with other programs, the establishment of a management reporting system, the development of an NASA Program Evaluation and Review Technique (PERT) and coordination with headquarters in overall system development and installation.

The office was established and Briggs appointed its chief in August of last year.

He is a graduate of Alabama Polytechnic Institute (Auburn) with a BS in Mechanical Engineering in 1935. In 1936 he joined Douglas Aircraft in Santa Monica, Calif., as a design engineer working on the original DC-4 and the B-18A auto pilot installation. Later he was flight control system engineering group leader on the B-23 bomber and on the A-20 attach series.

By 1942 he was assistant project engineer on the B-26 at the El Segundo, Calif. plant, and was involved in work on the TB2D Navy torpedo bomber two years later.

In 1946, Briggs began project engineering on the Skystreak and Skyrocket research aircraft for the Navy. The Skystreak set a world record for three kilometers of 650 miles per hour, and the Skyrocket, was the first airplane to go to Mach 2 (twice the speed of sound.)

In 1947, Briggs became project engineer at Edwards AFB, Calif., responsible for flight testing of the Skystreak and Skyrocket, as well as the F3D, F4D, A2D, A3D, and F5D.



Thomas W. Briggs

In 1959, Briggs became staff assistant to the Skybolt program manager at Douglas' Culver City missile and space engineering location. He was given responsibility for coordinating with Boeing Aircraft, A.V. Roe, Ltd. of Manchester, England. He devoted considerable effort to the master phasing schedule, negotiation of the Douglas-Boeing intercompany management agreements and cost and schedule negotiations with the United Kingdom Ministry of Aviation.

He held that position until joining MSC in September, 1961.

An avid fisherman and hunter, Briggs owns “seven or eight guns” for deer and bird stalking, and longs to go fishing in the Gulf for tarpon sometime soon. His wife, Joyce, son Jeffrey, 10, and daughter Judith, 13, are in the process of moving to Houston. Jeffrey may be interested in becoming an astronaut someday, but Judith is more concerned at the moment with finding a riding stable near her new Houston home.

NASA Group Insurance Plan Shows Another Drop In Premium Rates

The NASA Group Life Insurance Plan administered by the NASA Employees Benefit Association is pleased to announce another reduction in the cost of premiums.

Owing to the successful operation of this program over the past several years, employees throughout NASA are enjoying the security of this low-cost life insurance.

If you are not covered by this insurance plan, contact Robert C. Leezer in Financial Management, telephone WA 8-2741, extension 1193, for information on how you may join. MSC personnel at Cape Canaveral should contact Mary

Driver in Personnel Office in the E&O Building.

Listed in order are base annual salary, the old rate of employee's quarterly payment, and the new rate.

Less than \$4,000, \$2.90, \$2.80; \$4,000 but less than \$5,000, \$5.80, \$5.60; \$5,000 but less than \$6,000, \$8.70, \$8.40; \$6,000 but less than \$7,000, \$10.15, \$9.80; \$7,000 but less than \$8,000, \$11.60, \$11.20; \$8,000 but less than \$10,000, \$14.50, \$14.00; \$10,000 but less than \$12,000, \$17.40, \$16.80; \$12,000 but less than \$14,000, \$20.30, \$19.60; and \$14,000 and over \$21.75, \$21.00.



IN FRONT OF THE HOME in which he was raised, on what has now been re-named Grissom St., Astronaut and Mrs. Virgil I. Grissom and sons Scott, 12, and Mark, 8 visit with friends and neighbors in his home town of Mitchell, Ind. (Indianapolis Star photo)



INDIANA'S HIGHEST AWARD, the Distinguished Service Cross, is pinned on Grissom by Governor Matthew E. Welsh at the June 16 homecoming celebration. (Indianapolis Star photo)



THOUSANDS WITNESSED the ceremonies in Mitchell as Grissom and his wife, Betty climb the platform to get awards. (Indianapolis Star photo)



THE PLANET PATROL was on hand, too, as 12-year-old Stephen Meadows of Mitchell dressed up for Grissom's homecoming in his space shirt. (Louisville Courier-Journal photo)

Red Carpet Out For The Boy From Baker Street

Astronaut and Air Force Captain "Gus" Grissom returned to his hometown as a Kentucky Colonel June 16, and the small southern Indiana town went wild.

The Kentucky "Kunneley," awarded in Louisville the night before, was only one of the honors which showered on the MA-5 pilot on his trip to Mitchell, Indiana, the town he grew up in.

The Mitchell Tribune, in a special edition, bannered it "OUR GUS COMES HOME."

Grissom slept for the first time on Grissom Avenue—until recently Baker Street—in the house in which he was raised.

The city dedicated its new Mitchell Junior-Senior High School in his honor, and Grissom laid the cornerstone.

At a formal program in Lehigh Park he received Indiana's highest award, the Distinguished Service Cross, from Indiana Governor Matthew E. Welsh for "outstanding, heroic action."

Thomas W. Evans, president of the Indiana Society of Chicago, presented the society's 1961 Father-Son award to Dennis Grissom and his astronaut son.

He received a family gift from his 1944 graduating class at Mitchell High School: a statuette for meritorious service

in scouting; a certificate of honorary membership in Explorer Air Squadron Boy Scouts; a Junior Chamber of Commerce award; and a \$2,200 science scholarship from the Indiana Kappa Kappa Kappa Sorority to Indiana University's Science Talent Search program in his honor.

The Bedford Municipal Airport in Lawrence County was renamed Virgil Grissom Field.

He was made an honorary member of his wife's sorority, Epsilon Sigma Alpha.

Said Gus, "This is overwhelming."

"Not often in one day can you become a colonel, a member of a sorority, and have a

high school dedicated to you that you thought you'd never get out of."

Among those at the Lehigh Field program were Senator Homer E. Capehart, Congressman Earl Wilson and Frederick L. Hovde, president of Purdue University, from which Grissom graduated in 1950.

Hovde, noting that Grissom is one of six Purdue graduates now active or about to enter the space program, said the school is the "leading space academy of the world."

Capehart, noting he was sure Grissom would someday go to the moon, asked him to take "a persimmon seed, a watermelon seed, and two pieces of fried

chicken, and if there is anybody on the moon and they ask you where it came from—tell 'em Indiana."

A band from Wright-Patterson Air Force Base played "Back Home Again in Indiana" and six jets of the Kentucky Air Guard made three low sweeps of the field at the beginning of the program as Grissom and his wife Betty looked up.

The traveling party included Grissom and Betty, sons Mark, 8, and Scott, 12, his father, Dennis D. Grissom and his mother Ceceile, brothers Norman, 32, and Lowell, 28, and their wives.



SECOND FRONT PAGE

UNC Sociologist Appointed NASA Asst. In Public Affairs

Appointment of Dr. George L. Simpson, Jr., University of North Carolina Sociologist, as Assistant Administrator for Public Affairs of the National Aeronautics and Space Administration has been announced by James E. Webb, NASA Administrator.

Dr. Simpson will assume his new duties September 1.

He succeeds Dr. Hiden T. Cox who came to NASA under a six-month leave of absence from his permanent position.

As Executive Director of the American Institute of Biological Sciences, Dr. Cox will resume his duties with the AIBS July 1.

Until September 1 when he formally takes office, Simpson will function in NASA's Public Affairs field as a consultant.

Appointment of Simpson as Assistant Administrator brings a representative of the social sciences into a working relationship with NASA's physical science efforts and underlines the agency's awareness of the social and economic impact of its accelerating space program in both national and regional aspects.

Simpson, 40, has specialized in regional development. In 1956 he became executive director of the Research Triangle Committee of North Carolina. The committee drew together the resources of the state government, industry and the research potential of Duke University, the University of North Carolina and North Carolina State for the expansion of scientific activity in the south. Regional studies at the University of North Carolina

were a major force leading to formation of the research triangle effort.

The University of North Carolina, where Simpson has served since 1955 as a Professor of Sociology and a Research Professor in the University's Institute for Research in Social Science, became known as a center for regional studies under the leadership of the later Dr. Howard W. Odum. Simpson worked for many years in close association with Odum and is now in the process of revising Odum's book, "Southern Regions of the United States."

The new assistant administrator has served as a consultant on area development to Governor Terry Sanford of North Carolina, and his representative to the conference

(Continued on Page 4)



MARSHALL SPACE FLIGHT Center Director Wernher von Braun visited MSC Tuesday of last week to confer with Apollo Project personnel in connection with the Saturn booster. Left to right are Paul E. Purser, special assistant to the director, Astronaut Walter Schirra, Von Braun and Director Robert R. Gilruth.

Glenn Spacecraft 'Orbits' World Taking More Time This Trip

Friendship 7, the spacecraft in which Astronaut John Glenn made three rapid orbits of the earth Feb. 20, is making quite a hit on its forth world tour these days, although this one is being conducted at a much slower rate.

Beginning April 19 at Hamilton, Bermuda, the spacecraft has so far been in eighteen countries and today will make it twenty, when it is transferred from Bombay, W. India to

Columbo, Ceylon.

Seven more countries are on the itinerary before Friendship 7 returns to Seattle, Wash. and its final appearance.

NASA-MSC and U. S. Information Agency officials, have been accompanying the spacecraft in relays to give lectures and answer questions at public appearances. With it in India and Ceylon at the moment is G. Merritt Preston, chief of Preflight Operations

Division, and two USIA personnel.

From Ceylon the spacecraft goes to Rangoon, Burma; Bangkok, Thailand; Djakarta, Indonesia and Sydney, Australia, accompanied by John J. Williams, of Preflight Operations; then to Manila, Philippines; Tokyo, Japan; Seoul, Korea; and back to Seattle with Kenneth S. Kleinknecht, manager of Project Mercury.

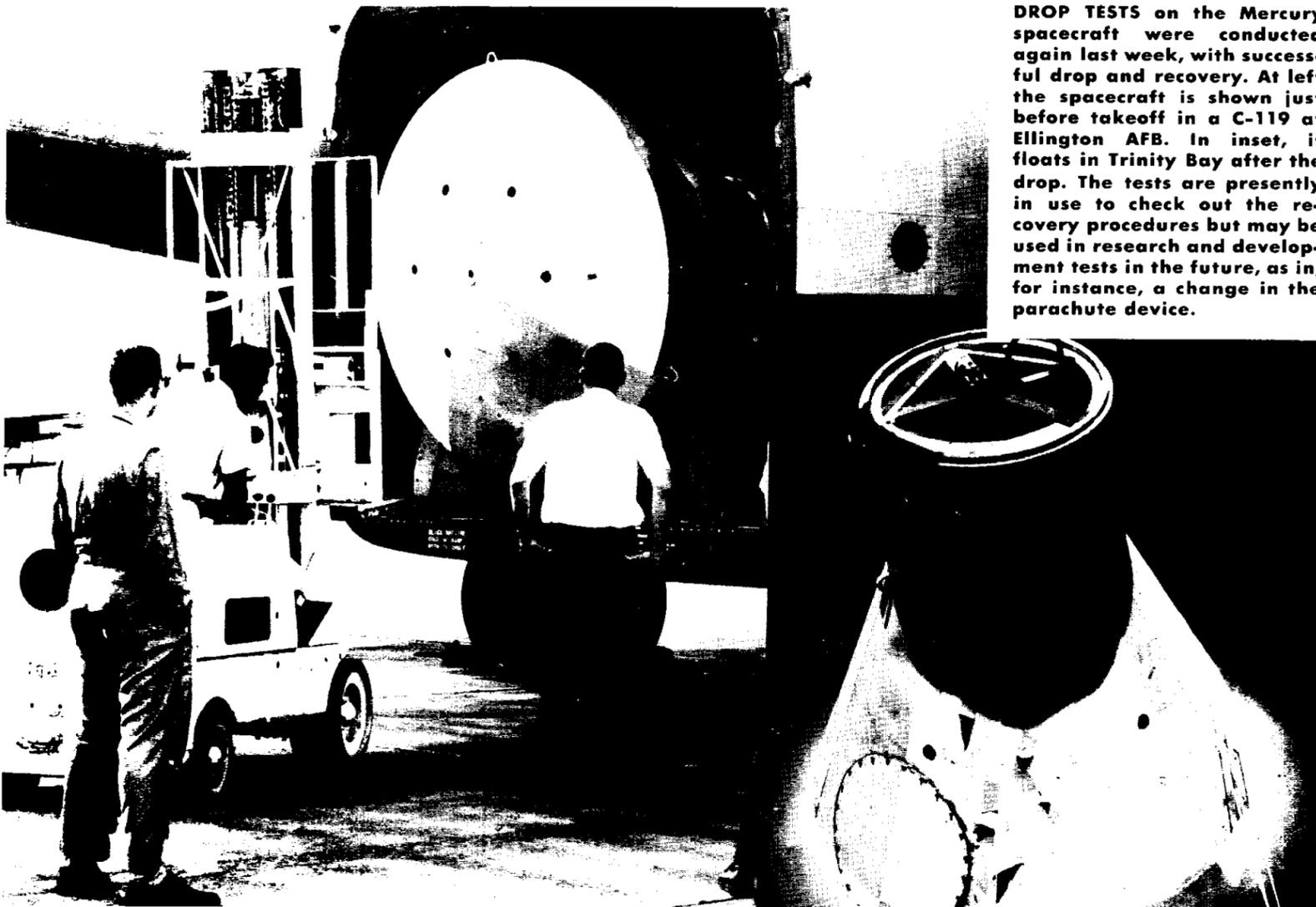
Since mid-April in Bermuda, the spacecraft toured South America (Bogata, Columbia; Santiago, Chile; Buenos Aires, Argentina; Rio De Janeiro, Brazil; Mexico City) in the company of Arnold D. Aldrich, Flight Operations Division; Donald Gregory, technical assistant to the director; Cloe Wood, of the Office of Programs, NASA Headquarters and Richard S. Johnston, Assistant chief of Life Systems Division.

Of its two-day Mexico City stand, Gregory commented, "We turned them away in crowds at closing time. They stood in line for hours. Their only complaint was that we didn't give them long enough to look."

After a brief return to McDonnell Aircraft in St. Louis, Mo. for repairs and a half-day appearance at Dover, Del., the spacecraft went to Europe—to London, Paris, Belgrade, Yugoslavia, Madrid—then to Africa.

An estimated 40,000 persons inspected the spacecraft during its three-day stay in London, and according to Johnston the measure of interest shown was excellent. In addition to the general questions which

(Continued on Page 4)



DROP TESTS on the Mercury spacecraft were conducted again last week, with successful drop and recovery. At left the spacecraft is shown just before takeoff in a C-119 at Ellington AFB. In inset, it floats in Trinity Bay after the drop. The tests are presently in use to check out the recovery procedures but may be used in research and development tests in the future, as in, for instance, a change in the parachute device.